CLAIMS

What is claimed is:

- 1. An apparatus for providing detonative cleaning communication through a vessel wall comprising:
 - a first conduit extending from the vessel wall;
- a first valve having an open condition permitting communication through the first conduit and a closed condition; and
- a second conduit having an insertion portion dimensioned to be received within a receiving portion of the first conduit; and
- a second valve having an open condition permitting communication through the second conduit and a closed condition.
- 2. The apparatus of claim 1 wherein: the first valve is a sliding gate valve; and the second valve is a sliding gate valve.
- 3. The apparatus of claim 1 wherein: one of the first and second valves is a sliding gate valve; and the other of said first and second valves is a hinged gate valve.
- The apparatus of claim 1 wherein:
 one of the first and second valves is a manually-actuated or machine-actuated valve;
 and

the other of said first and second valves is a manually-actuated or machine-actuated valve.

- 5. The apparatus of claim 1 further comprising:

 means for sealing the first conduit relative to the second conduit over a first range of insertion of the second conduit within the first conduit.
- 6. The apparatus of claim 1 wherein:
 the second conduit has an interior surface off-axis to an exterior surface.
- 7. An apparatus for providing detonative cleaning communication through a vessel wall

comprising:

a conduit defining a flow path through the vessel wall; and a valve along the flow path and having an open condition and a closed condition.

- The apparatus of claim 7 further comprising:
 a source of fuel and oxidizer coupled to the conduit;
 means for igniting charges of the fuel and the oxidizer.
- 9. The apparatus of claim 7 wherein:
 the valve is secured relative to the wall;
 the valve is along a downstream half of the flow path.
- 10. The apparatus of claim 7 wherein:
 the valve is a first valve at an upstream end of an access conduit; and
 the apparatus includes a second valve along the conduit upstream of the first valve and
 upstream of an insertion portion of the conduit within the access conduit.
- 11. The apparatus of claim 7 wherein:

the valve is a first valve between a main portion of the conduit and a downstream insertion portion of the conduit; and

the apparatus includes a second valve at an upstream end of an access conduit receiving the insertion portion.

12. A method for cleaning a vessel, the vessel having a wall and an access conduit initially sealed by a first valve, the method comprising:

inserting an insertion portion of a combustion conduit into the access conduit, the combustion conduit having a second valve;

forming a seal between the access conduit and the combustion conduit; opening the first valve; opening the second valve; passing combustion gasses through the combustion conduit into the vessel; and withdrawing the insertion portion from the access conduit.

13. The method of claim 12 wherein:

the opening of the first valve occurs during an intermediate stage of said insertion.

- 14. The method of claim 12 further comprising:forming a seal between the combustion conduit and the access conduit.
- 15. The method of claim 14 wherein:the forming of the seal occurs before the opening of the first valve.
- 16. The method of claim 12 wherein:

the opening of one of the first and second valves comprises a pivotal movement of a gate of said one valve; and

the opening of the other valve is manual.